

## Kv6.2, A VOLTAGE-GATED POTASSIUM CHANNEL SUBUNIT

### ABSTRACT OF THE DISCLOSURE

The invention provides isolated nucleic acid and amino acid sequences of  
5 Kv6.2, antibodies to Kv6.2, methods of detecting Kv6.2, methods of screening for  
voltage-gated potassium channel activators and inhibitors using biologically active  
Kv6.2, and kits for screening for activators and inhibitors of voltage gated potassium  
channels comprising Kv6.2.

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<b>(21) International Application Number:</b> PCT/US99/14945 <b>(22) International Filing Date:</b> 30 June 1999 (30.06.99)  <b>(30) Priority Data:</b> 60/091,466 1 July 1998 (01.07.98) US  <b>(71) Applicant (for all designated States except US):</b> ICAGEN INCORPORATED [US/US]; Suite 460, 4222 Emperor Boulevard, Durham, NC 27703 (US).  <b>(72) Inventor; and</b> <b>(75) Inventor/Applicant (for US only):</b> JEGLA, Timothy, James [US/US]; 3812 Old Chapel Hill Road, Durham, NC 27707 (US).  <b>(74) Agents:</b> PARENT, Annette, S. et al.; Townsend and Townsend and Crew LLP, 8th floor, Two Embarcadero Center, San Francisco, CA 94111-3834 (US).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS; MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> Kv6.2, A VOLTAGE-GATED POTASSIUM CHANNEL SUBUNIT  <b>(57) Abstract</b>  The invention provides isolated nucleic acid and amino acid sequences of Kv6.2, antibodies to Kv6.2, methods of detecting Kv6.2, methods of screening for voltage-gated potassium channel activators and inhibitors using biologically active Kv6.2, and kits for screening for activators and inhibitors of voltage gated potassium channels comprising Kv6.2.		